abcam

Product datasheet

Recombinant Human BAT3/BAG-6 protein ab152829

1 Image

Description

Product name	Recombinant Human BAT3/BAG-6 protein
Expression system	Wheat germ
Accession	P46379-2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MEPNDSTSTAVEEPDSLEVLVKTLDSQTRTFIVGAQMNVK EFKEHIAASV SIPSEKQRLIYQGRVLQDDKKLQEYNVGGKVIHLVERAPPQ THLPSGASS GTGSASATHGGGSPPGTRGPGASVHDRNANSYVMVGTF NLPSDGSAVDVH INMEQAPIQSEPRVRLVMAQHMIRDIQTLLSRMECRGGPQ PQHSQPPPQP PAVTPEPVALSSQTSEPVESEAPPREPMEAEEVEERAP AQNPELTPGPAP AGPTPAPETNAPNHPSPAEYVEVLQELQRLESRLQPFLQ RYYEVLGAAAT TDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRCN LACTPPRHLH VVRPMSHYTTPMVLQQAAIPIQINVGTTVTMTGNGTRPPPT PNAEAPPPG PGQASSVAPSSTNVESSAEGAPPPGPAPPPATSHPRVIRI SHQSVEPVVM MHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPG FPTAPTRVVIAR PTPPQARPSHPGGPPVSGTLQGAGLGTNASLAQMVSGL VGQLLMQPVLVA QGTPGMAPPPAPATASASAGTTNTATTAGPAPGGPAQPP PTPQPSMADLQ FSQLLGNLLGPAGPGAGGSGVASPTITVAMPGVPAFLQG MTDFLQATQTA PPPPPPPPPPPPAPEQQTMPPPGSPSGGAGSPGGLGLE SLSPEFFTSVVQ

GVLSSLLGSLGARAGSSESIAAFIQRLSGSSNIFEPGADGA
LGFFGALLS
LLCQNFSMVDVVMLLHGHFQPLQRLQPQLRSFFHQHYLG
GQEPTPSNIRM
ATHTLITGLEEYVRESFSLVQVQPGVDIIRTNLEFLQEQFNSI
AAHVLHC
TDSGFGARLLELCNQGLFECLALNLHCLGGQQMELAAVIN
GRIRRMSRGV
NPSLVSWLTTMMGLRLQVVLEHMPVGPDAILRYVRRVGD
PPQPLPEEPME
VQGAERASPEPQRENASPAPGTTAEEAMSRGPPPAPEG
GSRDEQDGASAE
TEPWAAAVPPEWVPIIQQDIQSQRKVKPQPPLSDAYLSG
MPAKRRKTMQG
EGPQLLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQ
ESYRQQLRSDI QKRLQEDPNYSPQRFPNAQRAFADDP

Predicted molecular weight	145 kDa including tags
Amino acids	1 to 1126

Specifications

Our Abpromise guarantee covers the use of **ab152829** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot SDS-PAGE
Form	Liquid
Additional notes	This product was previously labelled as BAT3.

Preparation and Storage

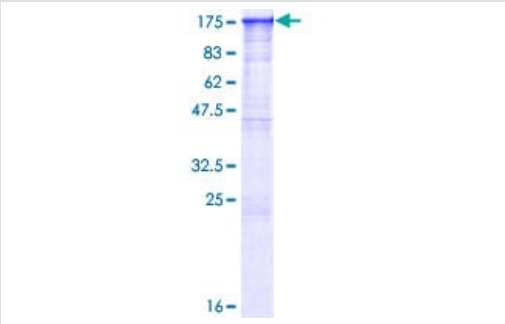
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Chaperone that plays a key role in various processes such as apoptosis, insertion of tail-anchored (TA) membrane proteins to the endoplasmic reticulum membrane and regulation of chromatin. Acts in part by regulating stability of proteins and their degradation by the proteasome. Participates in endoplasmic reticulum stress-induced apoptosis via its interaction with AIFM1/AIF by regulating AIFM1/AIF stability and preventing its degradation. Also required during spermatogenesis for synaptonemal complex assembly via its interaction with HSPA2, by inhibiting polyubiquitination and subsequent proteasomal degradation of HSPA2. Required for selective ubiquitin-mediated degradation of defective nascent chain polypeptides by the

	proteasome. In this context, may play a role in immuno-proteasomes to generate antigenic peptides via targeted degradation, thereby playing a role in antigen presentation in immune response. Key component of the BAG6/BAT3 complex, a cytosolic multiprotein complex involved in the post-translational delivery of tail-anchored (TA) membrane proteins to the endoplasmic reticulum membrane. TA membrane proteins, also named type II transmembrane proteins, contain a single C-terminal transmembrane region. BAG6/BAT3 acts by facilitating TA membrane proteins capture by ASNA1/TRC40: it is recruited to ribosomes synthesizing membrane proteins, interacts with the transmembrane region of newly released TA proteins and transfers them to ASNA1/TRC40 for targeting to the endoplasmic reticulum membrane. Also involved in DNA damage-induced apoptosis: following DNA damage, accumulates in the nucleus and forms a complex with p300/EP300, enhancing p300/EP300-mediated p53/TP53 acetylation leading to increase p53/TP53 transcriptional activity. When nuclear, may also act as a component of some chromatin regulator complex that regulates histone 3 'Lys-4' dimethylation (H3K4me2).
Sequence similarities	Contains 1 ubiquitin-like domain.
Post-translational modifications	Cleavage by caspase-3 releases a C-terminal peptide that plays a role in ricin-induced apoptosis. In case of infection by L.pneumophila, ubiquitinated by the SCF(LegU1) complex.
Cellular localization	Cytoplasm > cytosol. Nucleus. The C-terminal fragment generated by caspase-3 is cytoplasmic.

Images



SDS-PAGE - Recombinant Human BAT3/BAG-6 protein (ab152829)

12.5% SDS-PAGE analysis of ab152829 stained with Coomassie Blue.

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